CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 29.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :**Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore**

Agency :**Sri. D V Kumar, Contractor , Bangalore.**

Name of the work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2022	29.06.2022	8.130	330.3	14.68
2	22.06.2022	29.06.2022	8.123	345.5	15.36
3	22.06.2022	29.06.2022	8.143	354.2	15.74

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 20.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :**Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore**

Agency :**Sri. D V Kumar, Contractor , Bangalore.**

Name of the work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2022	20.07.2022	8.170	503.5	22.38
2	22.06.2022	20.07.2022	8.175	514.3	22.86
3	22.06.2022	20.07.2022	8.165	495.9	22.04

Note:

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :**Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore**

Agency :**Sri. D V Kumar, Contractor , Bangalore.**

Name of the work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2022	29.06.2022	8.150	345.0	15.33
2	22.06.2022	29.06.2022	8.140	348.3	15.48
3	22.06.2022	29.06.2022	8.155	354.9	15.77

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Client :**Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore**

Agency :**Sri. D V Kumar, Contractor , Bangalore.**

Name of the work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2022	20.07.2022	8.180	498.5	22.16
2	22.06.2022	20.07.2022	8.175	505.6	22.47
3	22.06.2022	20.07.2022	8.185	511.5	22.73

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 30.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :**Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore**

Agency :**Sri. D V Kumar, Contractor , Bangalore.**

Name of the work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2022	30.06.2022	8.136	336.3	14.95
2	23.06.2022	30.06.2022	8.165	346.5	15.40
3	23.06.2022	30.06.2022	8.146	352.8	15.68

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Agency :**Sri. D V Kumar, Contractor , Bangalore.**

Name of the work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2022	21.07.2022	8.165	505.2	22.45
2	23.06.2022	21.07.2022	8.158	516.3	22.95
3	23.06.2022	21.07.2022	8.172	524.3	23.30

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2022	30.06.2022	8.140	340.3	15.12
2	23.06.2022	30.06.2022	8.155	365.2	16.23
3	23.06.2022	30.06.2022	8.172	346.5	15.40

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Agency :**Sri. D V Kumar, Contractor , Bangalore.**

Name of the work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2022	21.07.2022	8.165	506.3	22.50
2	23.06.2022	21.07.2022	8.128	498.6	22.16
3	23.06.2022	21.07.2022	8.146	519.6	23.09

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 01.07.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore**
Agency	**: Sri. D V Kumar, Contractor , Bangalore.**
Name of the work	: Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2022	01.07.2022	8.135	265.3	11.79
2	24.06.2022	01.07.2022	8.128	284.5	12.64
3	24.06.2022	01.07.2022	8.149	276.3	12.28

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 22.07.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore**

Agency : **Sri. D V Kumar, Contractor , Bangalore.**

Name of the work : Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2022	22.07.2022	8.168	375.3	16.68
2	24.06.2022	22.07.2022	8.184	369.3	16.41
3	24.06.2022	22.07.2022	8.146	383.6	17.05

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Sample ID : Cement Concrete

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Cross Sectional Area : 22500 mm^2

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Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2022	01.07.2022	8.135	265.3	12.10
2	24.06.2022	01.07.2022	8.128	284.5	11.89
3	24.06.2022	01.07.2022	8.149	276.3	12.14

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2022	22.07.2022	8.168	375.3	16.74
2	24.06.2022	22.07.2022	8.184	369.3	16.81
3	24.06.2022	22.07.2022	8.146	383.6	17.04

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

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Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2022	01.07.2022	8.135	265.3	11.64
2	24.06.2022	01.07.2022	8.128	284.5	12.14
3	24.06.2022	01.07.2022	8.149	276.3	12.64

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Agency : **Sri. D V Kumar, Contractor , Bangalore.**

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Sample ID : Cement Concrete

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 08.07.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Contractor : **Sri. D V Kumar, Contractor , Bangalore.**

Name of Work : Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

No.of Sample Tested : 03

Date of Testing : 08.07.2022

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.372	2310.46	1.64	0.961	31.90	16.25	17.55	16.86	21.08
2	50.00	84.00	0.389	2358.52	1.68	0.965	32.50	16.55	17.88	17.26	21.57
3	50.00	86.00	0.405	2398.43	1.72	0.970	33.60	17.11	18.48	17.92	22.40

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 08.07.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Contractor : **Sri. D V Kumar, Contractor , Bangalore.**

Name of Work : Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

No.of Sample Tested : 03

Date of Testing : 08.07.2022

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	112.00	1.682	2360.66	1.24	0.918	112.30	17.65	19.06	17.51	21.89
2	90.00	114.00	1.726	2379.91	1.27	0.921	114.60	18.01	19.46	17.91	22.39
3	90.00	116.00	1.765	2391.73	1.29	0.923	115.60	18.17	19.62	18.12	22.65

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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